

Claims

1. Method of regulating, in an internal combustion engine (1) in a moving vehicle (A), the recirculation of exhaust from the exhaust side (7) of the engine to the intake side (6) of the engine, **characterized** in that the future driving resistance of the vehicle (A) is calculated, that the time until a future transient in the engine operating state is calculated, and that the exhaust return flow is regulated during this time to optimize fuel consumption and emissions, when the transient takes place.
2. Method according to claim 1 for regulating return exhaust flow in connection with gearshifting in an automated transmission (2) coupled to the engine (1), **characterized** in that the time until a future shifting between gears is calculated, and that the exhaust return flow during this time is restricted to optimize fuel consumption and emissions during the shifting between gears.
3. Vehicle with an internal combustion engine (1) with electronic control means (3) which control the supply of fuel to the engine combustion chambers and recirculation of exhaust from the exhaust side (7) of the engine to the engine intake side (6), **characterized** in that the control means (3) are disposed, while the vehicle is moving, on the basis of input information on at least road incline and throttle position, to calculate future driving resistance and the time until a future transient in the engine operating state, and to control the exhaust return flow by regulating valve means (9) during this time to optimize fuel consumption and emissions when the transient takes place.
4. Vehicle according to claim 3 with an automated transmission (2) coupled to the engine (1), **characterized** in that the control means (3) have engine and transmission control functions and are disposed to calculate the time until a future shifting of gears and control the exhaust return flow by regulating valve means (9) during this time to optimize fuel consumption and emissions during the gearshifting.